

**Notice of Allowability**

Application No.

10/675,224

Examiner

Elizabeth A. Bolden

Applicant(s)

GRUN ET AL.

Art Unit

1755

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to filed 17 April 2006.
2. ☒ The allowed claim(s) is/are 1-4, 6-15, and 17 -24.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 17 April 2006.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>06202006</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____.   |

**DETAILED ACTION**  
**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this Examiner's amendment was given in a telephone interview with Mark Swanson on 21 June 2006.

The application has been amended as follows:

In the specification insert the following paragraph on page 5 after the third paragraph that starts with "This object can be achieved".

- -In one embodiment a borosilicate glass is provided with a composition in a percent by weight on an oxide basis, including: 60 - 75% SiO<sub>2</sub>, 10 - 15% B<sub>2</sub>O<sub>3</sub>, 5 - 15% Na<sub>2</sub>O, 5 - 10% K<sub>2</sub>O, 0.1 - 1% CaO, 0.5 - 3% BaO, > 0 - 1.7% TiO<sub>2</sub>, 0 - 0.5% Sb<sub>2</sub>O<sub>3</sub>, and normal refining agents, and having an edge wavelength  $\lambda_c$  between 280 nm and 325 nm and a pass range internal transmittance ( $\tau_{ip}$ ) of greater than 98% and an optical density in a stop range of  $1 \times 10^5$  with a sample thickness of 2 mm.- -

Replace claim 1 with the following:

- - A borosilicate glass with a composition in a percent by weight on an oxide basis, including: 60 - 75% SiO<sub>2</sub>, 10 - 15% B<sub>2</sub>O<sub>3</sub>, 5 - 15% Na<sub>2</sub>O, 5 - 10% K<sub>2</sub>O, 0.1 - 1% CaO, 0.5 - 3% BaO, > 0 - 1.7% TiO<sub>2</sub>, 0 - 0.5% Sb<sub>2</sub>O<sub>3</sub>, and normal refining agents, and having an edge wavelength  $\lambda_c$  between 280 nm and 325 nm and a pass range internal transmittance ( $\tau_{ip}$ ) of greater than 98% and an optical density in a stop range of  $1 \times 10^5$  with a sample thickness of 2 mm.- -

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Replace claim 2 with the following:

--A borosilicate glass according to claim 1, wherein the composition in the percent by weight on an oxide basis includes 65 - 75% SiO<sub>2</sub>, 10 - 13% B<sub>2</sub>O<sub>3</sub>, 6 - 12% Na<sub>2</sub>O, 5 - 10% K<sub>2</sub>O, 0.1 - 0.5% CaO, 0.5 - 2.5% BaO, > 0 - 1.7% TiO<sub>2</sub>, 0 - 0.5% Sb<sub>2</sub>O<sub>3</sub>, and normal refining agents. -

***Allowable Subject Matter***

Claims 1-4, 6-15, and 17-24 are allowed.

***Reason For Allowance***

The following is an examiner's statement of reasons for allowance:

The prior art fail to disclose or suggest a glass composition having the composition as recited in the instant claims, which result in the recited properties specifically the difference between the HTV temperature and the liquidus temperature being at least 150°F.

The closest prior art is deemed to be U.S. Patent 4,562,161 by Mennemann et al. Mennemann et al. discloses a similar composition but does not teach that the glass has a pass range internal transmission greater than 98 %. Mennemann et al. teach that the glass, essentially completely absorbs the transmission of UV light from 340 to 390 nm, where the instant claims require that UV light is transmitted in the past band region, which includes 340 to 390 nm.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth A. Bolden whose telephone number is 571-272-1363. The examiner can normally be reached on 10 am to 8:30 pm every Friday off.


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EAB

21 June 2006

  
J. A. LORENGO  
SUPERVISORY PATENT EXAMINER